

20030110.qrp v02\_n796.qrl.20030110

Date: Fri, 10 Jan 2003 19:03:06 EST  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 2796

QRP-L Digest 2796

Topics covered in this issue include:

- 1) [144361] Re: Simple 40M Class E transmitter  
by "Ian Wilson" <ianmwilson@earthlink.net>
- 2) [144362] Re: Simple 40M Class E transmitter  
by "Ian Wilson" <ianmwilson@earthlink.net>
- 3) [144363] Re: An Annoying Off-Topic Problem  
by psschwarz@kellnet.com
- 4) [144364] KD7S...Echolink  
by "Floyd Smithberg" <nq7x@earthlink.net>
- 5) [144365] After hunting Foxii  
by Paul Womble <pwomble1@tampabay.rr.com>
- 6) [144366] Re: Crossover distortion in Op-amps  
by "James R. Duffey" <JamesDuffey@comcast.net>
- 7) [144367] Two FOX Spots  
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 8) [144368] Re: Two FOX Spots  
by Bob Nielsen <nielsen@oz.net>
- 9) [144369] Good Truffleing tonight!  
by "w5tb" <w5tb@arrl.net>
- 10) [144370] Re: Litz Wire  
by George Gingell <k3tks@u1.abs.net>
- 11) [144371] OT: EchoLink success  
by "Bill Jones" <kd7s@psnw.com>
- 12) [144372] Re: Two FOX Spots  
by Garey Barrell <k4oah@mindspring.com>
- 13) [144373] Re: Crossover distortion in Op-amps  
by Steven Weber <kd1jv@moose.ncia.net>
- 14) [144374] Re: Two FOX Spots  
by "KL7FDQ, Wayne Leman" <KL7FDQ@rangeweb.net>
- 15) [144375] Re: Two FOX Spots  
by Al Scanandoah <k2zn@rochester.rr.com>
- 16) [144376] Where are the hounds?  
by Dave Gingrich K9DC <gingrich2@dcg.org>
- 17) [144377] FOX: Two fer  
by "Karl F. Larsen" <k5di@zianet.com>
- 18) [144378] Re: Two FOX Spots  
by "Bob Schreibmaier" <k3ph@ptd.net>
- 19) [144379] Re: Two FOX Spots

- by "Tom Palmer" <n1tp@swfla.rr.com>
- 20) [144380] FOXII: Portable...  
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 21) [144381] FOX Comments - N3BJ  
by "Alan Fryer" <N3BJ@hotmail.com>
- 22) [144382] CONTEST: WAP  
by "w8diz" <w8diz@fpqrp.com>
- 23) [144383] Re: FOX Comments - N3BJ  
by "George, W5YR" <w5yr@att.net>
- 24) [144384] Re: Crossover distortion in Op-amps  
by "Bob Okas" <vintage2@earthlink.net>
- 25) [144385] Truffle Log w5tb 3/10/03  
by "w5tb" <w5tb@arrl.net>
- 26) [144386] Re: FOX Comments - N3BJ  
by "Tom Palmer" <n1tp@swfla.rr.com>
- 27) [144387] Re: Where are the hounds?  
by "Tom Palmer" <n1tp@swfla.rr.com>
- 28) [144388] Re: OT:Looking for EchoLink test  
by "Robert M. Kimbrell" <kimbrell@sdf.lonestar.org>
- 29) [144389] Re: Crossover distortion in op-amps  
by "Upton, Shawn" <SUpton@ALLEGROMICRO.com>
- 30) [144390] FOX & QRM  
by Wayne\_W5KDJ <w5kdj@juno.com>
- 31) [144391] N4BP Address Change  
by Bob Patten <n4bp@bellsouth.net>
- 32) [144392] Re: Where are the hounds?  
by W2AGN <w2agn@w2agn.net>
- 33) [144393] Milliwatt WAS .. Got ALL cards !!!!!  
by "George Osier" <gosier@twcnny.rr.com>
- 34) [144394] Re: Where are the hounds?  
by "Jim Stamper" <jstamper@shentel.net>
- 35) [144395] hambrew  
by "Royce Simmons" <w2rbn@prodigy.net>
- 36) [144396] Fwd: Re: FS: Norm's Items...check it out!! One item left: SWR Meter  
by Lloyd Lachow <llachow@yahoo.com>
- 37) [144397] Web seminar on Analog & Digital mixed signals  
by "Don Jackson (AE5K)" <don@azark.com>
- 38) [144398] Antenna Question...  
by psschwarz@kellnet.com
- 39) [144399] Communication Concepts  
by "Chris Trask" <chistrask@earthlink.net>
- 40) [144400] Non Linear Devices Mini-Scope?  
by Brian Mileschosky <n5zgt@swcp.com>
- 41) [144401] Re: Communication Concepts  
by "Chris Trask" <chistrask@earthlink.net>
- 42) [144402] Re: Crossover distortion in Op-amps  
by k4vib@att.net
- 43) [144403] Re: hambrew

by Paul Mooney <mooney@cytanet.com.cy>  
44) [144404] Re: Non Linear Devices Mini-Scope?  
by "Randy Randall" <RANDALLR@Healthall.com>  
45) [144405] Fox: Re: Where are the hounds?  
by Pete Burbank <plburbank@earthlink.net>  
46) [144406] WE6W Resonant Speaker (N5FC Prototype) << KA0PGQ variant  
by "pschweit" <pschweit@mninter.net>  
47) [144407] Variable height vertical  
by ARDUJENSKI@aol.com  
48) [144408] Jerry Parker ok?  
by Kenneth Hoglund <hoglund@wfu.edu>  
49) [144409] "Test"  
by "Bob Hightower" <nk7m@extremezone.com>  
50) [144410] Never new T was a hard letter to copy.  
by Alex <kr1st@amsat.org>  
51) [144411] FS: KG6CYN Experimenter's DDS Signal Generator boards  
by "Jim Larsen, AL7FS" <JimLarsen2002@alaska.net>  
52) [144412] Re: hambrew  
by "Mike Branca" <w3irz@att.net>  
53) [144413] Re: FOX Comments - N3BJ  
by "George, W5YR" <w5yr@att.net>  
54) [144414] OT: Practical joke on a ham  
by "N4LGH" <n4lgh@waveguide.us>  
55) [144415] Antenna Height ???????  
by "George Osier" <gosier@twcnny.rr.com>  
56) [144416] Re: Milliwatt WAS .. Got ALL cards !!!!!  
by William R Colbert <w5xe@juno.com>  
57) [144417] Re: Non Linear Devices Mini-Scope?  
by Pete Burbank <plburbank@earthlink.net>  
58) [144418] WTB: Yaesu Hand Mic  
by "Ed Kessler" <aa3sj@arrl.net>  
59) [144419] OT NIMH Batteries  
by "W2WU" <w2wurjj@verizon.net>  
60) [144420] Re: Crossover distortion in Op-amps  
by "Bob Okas" <vintage2@earthlink.net>  
61) [144421] AOL8  
by mykeyw9@aol.com  
62) [144422] communication concepts  
by "JB Crafts" <jbcraft@adelphia.net>  
63) [144423] Re: Non Linear Devices Mini-Scope?  
by "JB Crafts" <jbcraft@adelphia.net>  
64) [144424] Re: Antenna Height ???????  
by "Pastor-kc1di" <elbc2@gwi.net>  
65) [144425] Re: Communication Concepts  
by Bob Nielsen <nielsen@oz.net>  
66) [144426] Re: Communication Concepts  
by "Chris Trask" <chistrask@earthlink.net>  
67) [144427] Re: communication concepts

by "Chris Trask" <chistrask@earthlink.net>  
68) [144428] Re: Milliwatt WAS .. Got ALL cards !!!!!  
by Larry Cahoon <lejek@erols.com>  
69) [144429] Re: Milliwatt WAS .. Got ALL cards !!!!!  
by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>  
70) [144430] FS: MFJ-9040 QRP Transceiver w/ MFJ-412 Curtis keyer  
by n8qxb <n8qxb@earthlink.net>  
71) [144431] Re: OT NIMH Batteries  
by "Bud Haynes" <BudHaynes@peoplepc.com>  
72) [144432] Crossover distortion in Op-amps  
by Dick Ballard <ballardr@att.net>  
73) [144433] RE: Communication Concepts  
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>  
74) [144434] Nor'easter FS  
by Bob cutter <ki0g@yahoo.com>  
75) [144435] QRP+ and acc. FS  
by Bob cutter <ki0g@yahoo.com>  
76) [144436] Re: Communication Concepts  
by "Chris Trask" <chistrask@earthlink.net>  
77) [144437] G4ZPY dual lever paddles (iambic)  
by "Joe W2KJ" <w2kj@bellsouth.net>  
78) [144438] Re: Milliwatt WAS .. Got ALL cards !!!!!  
by Larry Cahoon <lejek@erols.com>  
79) [144439] Re: OT NIMH Batteries  
by Larry Cahoon <lejek@erols.com>  
80) [144440] OT: CAT5e cable  
by Bill Vodall - WA7NWP <wa7nwp@yahoo.com>  
81) [144441] Re: IL Falls - All Counties QRP  
by "Tom Palmer" <n1tp@swfla.rr.com>  
82) [144442] Re: Antenna Height ??????  
by Lew Paceley <lew@paceley.com>  
83) [144443] Re: Truffle Log w5tb 3/10/03  
by "Tom Palmer" <n1tp@swfla.rr.com>  
84) [144444] FDIIM 2003 - Call for Presenters  
by "Tom Dooley" <tdooley@attbi.com>  
85) [144445] FOX: Two Fer - NOT  
by "Jay Henson" <aj4ay@worldnet.att.net>  
86) [144446] Re: Non Linear Devices Mini-Scope?  
by "Jim Gantner" <jgantner@mindspring.com>

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Date: Thu, 9 Jan 2003 16:02:23 -0800  
From: "Ian Wilson" <ianmwilson@earthlink.net>  
To: <kd1jv@moose.ncia.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [144361] Re: Simple 40M Class E transmitter  
Message-ID: <001001c2b83b\$8ddf5440\$0b02a8c0@WorkGroup>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Steve,

I ran my fledgling class E design tool for a 12v, 2.5w design using 2N7000 characteristics. The resulting design values are below.  
Predicted drain efficiency is 84%. I would be very interested to see what you get if you have time to try it :)

You really want a higher Vgs - how about using capacitive coupling from U2c plus about 1.5v of bias? (Vgs(on) typ for this device is 2.1v, so 1.5v should be safe).

Component values:  
L1=5uH, L2=0.79uH, L3=0.51uH  
C8\*=300pF, C9=1500pF, C12=270pF, C10=920pF

\*: This takes into account 47pF in the TR switch and a total drain-ground capacitance of 15pF.

72 de ian, k3imw/6

-----  
Date: Thu, 9 Jan 2003 16:04:37 -0800  
From: "Ian Wilson" <ianmwilson@earthlink.net>  
To: <kd1jv@moose.ncia.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [144362] Re: Simple 40M Class E transmitter  
Message-ID: <001501c2b83b\$dd659b00\$0b02a8c0@WorkGroup>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

ps. Using the design values I just posted, I would expect 1.6w out at 9v (74% efficiency).

--ian

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Date: Thu, 09 Jan 2003 23:59:37 GMT  
From: psschwarz@kellnet.com  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [144363] Re: An Annoying Off-Topic Problem  
Message-ID: <20030109235937.21526.qmail@mail.kellnet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed; charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> By saving the emails that cause the hangup and later examining them, I  
> have now narrowed the problem down to being emails whose character set  
> is GS3212 (simplified Chinese). I don't have that character set on my  
> machine, and I cannot locate a source to obtain it. Does anyone out there  
> know what setting in Outlook Express to adjust to remedy this, or perhaps  
> a web site where the GS3212 character set can be obtained?

In your browser, randomly type in some topic or subject and read the hits.  
Choose one that reads something to the effect "the characters on this page  
are not supported on this machine" and click the link. You should be  
prompted with a stand-alone screen to download a character set. I'm not  
positive this will clear your trouble, but I also have the problem with  
character sets missing from my computer.

Patrick...KB8RTZ...

-----  
Date: Thu, 9 Jan 2003 17:17:32 -0700  
From: "Floyd Smithberg" <nq7x@earthlink.net>  
To: "QRP-L Message" <qrp-l@lehigh.edu>  
Subject: [144364] KD7S...Echolink  
Message-ID: <000501c2b83d\$ac7ffce0\$a1c856d1@FloydNQ7X>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Bill got your msg too late ...looked for you at 2400Z nada.  
Can get on for ck later....sked on Echolink?  
73 Floyd NQ7X Phoenix,AZ DM33VQ

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Date: Thu, 09 Jan 2003 21:16:43 -0500

From: Paul Womble <pwomble1@tampabay.rr.com>  
To: QRP-L <qrp-l@Lehigh.EDU>, FP List <fpqrp-l@mpna.com>  
Subject: [144365] After hunting Foxii  
Message-ID: <3E1E2D0B.A2549E68@tampabay.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Be sure to stop by 7044 +/- qrm and say hello. I'll be QRV looking for Flying Piggs.

oo  
Paul K4FB

-----  
Date: Thu, 09 Jan 2003 19:15:18 -0700  
From: "James R. Duffey" <JamesDuffey@comcast.net>  
To: qrp-l@lehigh.edu  
Subject: [144366] Re: Crossover distortion in Op-amps  
Message-ID: <BA437AC5.22E27%JamesDuffey@comcast.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Glen and Bill - Doesn't this technique bias the op amp in Class A? That gets rid of the crossover distortion, but can all op amps handle the increased dissipation? - Duffey

--  
James R. Duffey KK6MC/5  
Cedar Crest, NM DM65

-----  
Date: Thu, 9 Jan 2003 20:27:38 -0600  
From: "Doc K0EVZ" <dock0evz@earthlink.net>  
To: "qrp-l reflector" <qrp-l@lehigh.edu>  
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>  
Subject: [144367] Two FOX Spots  
Message-ID: <412003151022738538@earthlink.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Gang:

Have spotted both FOXES out running fast tonight. Dave K9DC (IN) is on

7.037 and listening up, while Alan N3BJ (VA) is 7.040.8 and listening up. Both have very good signals on the Ten-Tec Argo 515. Believe this will be a great night to grab a pair of FOX furs, everyone.

73,  
--Doc/K0EVZ

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Date: Thu, 9 Jan 2003 18:40:06 -0800  
From: Bob Nielsen <nielsen@oz.net>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [144368] Re: Two FOX Spots  
Message-ID: <20030110024006.GA11375@n7xy.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline

On Thu, Jan 09, 2003 at 08:27:38PM -0600, Doc K0EVZ wrote:

> Gang:  
>  
> Have spotted both FOXES out running fast tonight. Dave K9DC (IN) is on  
> 7.037 and listening up, while Alan N3BJ (VA) is 7.040.8 and listening up.  
> Both have very good signals on the Ten-Tec Argo 515. Believe this will be  
> a great night to grab a pair of FOX furs, everyone.

Both foxii were quite loud and easy to work from WA this evening.

Bob, N7XY

-----  
Date: Thu, 9 Jan 2003 20:44:02 -0600  
From: "w5tb" <w5tb@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [144369] Good Truffleing tonight!  
Message-ID: <004201c2b852\$22e29960\$0400a8c0@altn1.tx.home.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable



Wow -- you guys are terrific! A \*very\* well behaved pileup -- took me =  
back to days as KR6JX (when "choto matte qudasai" was my favorite saying =  
;-) Log this weekend. Thanks to all who mad it and appologies to those =  
who didn't - especially the K2 at the end clobbered by QRM :-)

Was on Omni 6+ es cmos III keyer tonight with short G5RV. Band good east =  
& north but poor west.=20

I just got the K2 computer control mod today -- I may give up paper log =  
and get drug into 21st century yet ;-) May even try being a FOX next =  
season -- gulp ;-)

72, 73, oo T.E. 'Doc' Drake, W5TB  
Arlington, Texas  
FISTS # 5365 QRPARCI # 3532 ARRL Life Member K1 #181 K2#1617=20

-----  
Date: Thu, 9 Jan 2003 21:43:52 -0500 (EST)  
From: George Gingell <k3tks@u1.abs.net>  
To: Tracy Markham <n4lgh@waveguide.us>  
Cc: QRP List <qrp-l@Lehigh.EDU>  
Subject: [144370] Re: Litz Wire  
Message-ID: <20030109212936.E20610-100000@u1.abs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Tracy,

Actually I am just checking if this a good address for you. I had a  
Bytemark address in my pine directory.

On the litz wire, I guess there are several versions, but the one I was  
famaliar with was sort of Ivory colored and cotton? outer covering. I  
had/have a few thousand feet on a roll somewhere? Another version was  
used in the Phone company for test leads and patch cords. In fact it may  
have been a form of Litz wire used in the Switchboard Cords. The main  
difference was the fact that you could not solder to it connections were  
made but crimping a metal clip around the wire and innercord.

My telephone PicSet (Single Hi-Z Headphone) used similar wire leads to it.

I often just shortened it and wrapped some #26 bare copper phone wire

around it (Like whipping a rope) and then soldered it. This would fit nicely into the socket and a setscrew held it in place for the actual connection to the Receiver Unit Coil. The old Step-by-Step Switches used a four to six inch piece of very flexible wire to connect the switch contacts to the switch base and relay circuits. I suspect this was closer to the described wire than what I know as "Litz" wire. Most of the true Litz wire that I have experience with in the past was from RFC's or IF Cans. Some of the very early TV Yokes may have used Litz wire also.

Neat stuff. If only for the memories...

QRPP Dx Tu, (C) 2002 K3TKS

Sir George, The First :^}

72 ES QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@abs.net  
Former QRP A.R.C.I. Net Manager and CURRENT Board of Director Member.  
Gingell & Company, Ltd. Small Business Telephone Systems, Handyman Services,  
Commercial & Residential Locksmith Services (301) 572-6789 Office & Fax  
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117  
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1,  
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -  
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Collector of Quartz Crystals and Telegraph Keys.

Maryland Milliwatt Club QRP Reference Library, & I.Q.S.F. Donations Accepted.

RU-QRP? Club Representative, U.S. Treasurer & Founder of I.Q.S.F.

Yes, We take "PayPal" to "George Gingell" <K3TKS@abs.net>

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

-----  
Date: Thu, 9 Jan 2003 15:34:50 -0800  
From: "Bill Jones" <kd7s@psnw.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [144371] OT: EchoLink success  
Message-ID: <000701c2b837\$b5ac1160\$5e6aadcf@RadioRoom>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Friends,

My sincere thanks to Tony, G4WIF and Karl, W8TIF for the EchoLink tests. While EchoLink will never replace CW on the bottom end of 40 meters, I can see where it can be a very valuable too.

=====  
Bill Jones <><  
Sanger, California  
=====

-----  
Date: Thu, 09 Jan 2003 22:04:17 -0500  
From: Garey Barrell <k4oah@mindspring.com>  
To: dock0evz@earthlink.net,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [144372] Re: Two FOX Spots  
Message-ID: <5.1.0.14.0.20030109220057.00a45600@mail.mindspring.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Easy for you to say ...

After listening to SSB and RTTY for an hour, I finally hear a couple of weak sigs buried in the crud. UA3TY and an F5, but not hide nor hair of FOXII. Guess the skip's a bit long tonight... Ahhh good, now a bit of AMTOR to spice things up.

73, Garey - K40AH  
Atlanta

At 09:27 PM 1/9/2003, Doc K0EVZ wrote:

>Gang:  
>  
>Have spotted both FOXES out running fast tonight. Dave K9DC (IN) is on  
>7.037 and listening up, while Alan N3BJ (VA) is 7.040.8 and listening up.  
>Both have very good signals on the Ten-Tec Argo 515. Believe this will be  
>a great night to grab a pair of FOX furs, everyone.  
>  
>73,  
>--Doc/K0EVZ

-----  
Date: Thu, 09 Jan 2003 22:21:22 -0500

From: Steven Weber <kd1jv@moose.ncia.net>  
To: k4vib@att.net  
Cc: qrp-1@lehigh.edu  
Subject: [144373] Re: Crossover distortion in Op-amps  
Message-ID: <3.0.6.32.20030109222122.007b7c60@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>What does crossover distortion sound like and where does it usually  
occur? Is  
>is spread evenly over the signals variation in strength or does it usually  
show  
>up on strong signals?

Many, if not most op amps (and audio amps) use a pull up and pull down  
output amplifier scheme. Crossover distortion can happen at the transition  
point between the signal being pulled up and being pulled down (mid level).  
It's probably most noticeable with small signals working around that mid  
point. It just sorta sounds bad.

>

>>From Harry's description then to cure the crossover distortion I'm  
connecting  
>the 5 to 10K resistor from the output pin of the op amp to the power supply  
>rail?

>

I'm not sure that would cure crossover distortion, as that's more a  
function of how the output transistors are driven by the drivers. Some  
amplifiers are better at pulling up than they are at pulling down (a LM324  
is like that). It's not too often one finds an op amp which pulls down  
better than it pulls up (unless it's open collector, then it can't pull up  
at all) and most are pretty much equal both ways.

In the case of a LM324, the data book suggests adding a pull down resistor  
to the output when driving capacitive loads in audio stages to help keep  
the output symmetrical.

72,

Steve, KD1JV

"Melt Solder"

White Mountains of New Hampshire

<http://www.qsl.net/kd1jv/>

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Date: Thu, 9 Jan 2003 20:20:19 -0700  
From: "KL7FDQ, Wayne Leman" <KL7FDQ@rangeweb.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [144374] Re: Two FOX Spots  
Message-ID: <007901c2b857\$5bde3530\$023d1dac@waynecomputer>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Heard them both here in Montana, but quite weak, and the skip lengthened out quickly. I tried but didn't have a chance. I thought that putting up a better antenna before this Fox hunt would help me, but not this time. Hope springs eternal ... :-)

Wayne

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Wayne Leman  
<http://www.qsl.net/kl7fdq>

> Easy for you to say ...  
>  
> After listening to SSB and RTTY for an hour, I finally hear a couple of  
> weak sigs buried in the crud. UA3TY and an F5, but not hide nor hair of  
> FOXII. Guess the skip's a bit long tonight...  
> Ahhh good, now a bit of AMTOR to spice things up.  
>  
> 73, Garey - K40AH  
> Atlanta  
>  
> At 09:27 PM 1/9/2003, Doc K0EVZ wrote:  
> >Gang:  
> >  
> >Have spotted both FOXES out running fast tonight. Dave K9DC (IN) is on  
> >7.037 and listening up, while Alan N3BJ (VA) is 7.040.8 and listening up.  
> >Both have very good signals on the Ten-Tec Argo 515. Believe this will  
be  
> >a great night to grab a pair of FOX furs, everyone.  
> >  
> >73,  
> >--Doc/K0EVZ  
>  
>  
>

-----

Date: Thu, 09 Jan 2003 22:23:04 -0500  
From: Al Scanandoah <k2zn@rochester.rr.com>  
To: qrp-l <qrp-l@lehigh.edu>  
Subject: [144375] Re: Two FOX Spots

Message-ID: <3E1E3C98.8030009@rochester.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Ditto in WNY...

Al, K2ZN

Garey Barrell wrote:

> Easy for you to say ...

>

> After listening to SSB and RTTY for an hour, I finally hear a couple of  
> weak sigs buried in the crud. UA3TY and an F5, but not hide nor hair of  
> FOXII.

-----  
Date: Thu, 9 Jan 2003 22:37:34 -0500 (EST)  
From: Dave Gingrich K9DC <gingrich2@dcg.org>  
To: qrp-l@lehigh.edu  
Subject: [144376] Where are the hounds?  
Message-ID: <Pine.LNX.4.44.0301092235530.6517-100000@tigger.dcg.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I can't have worked all of you yet... Really boring right now

-Dave K9DC, 7.037

-----  
Date: Thu, 9 Jan 2003 20:43:54 -0700 (MST)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: qrp-l@lehigh.edu  
Subject: [144377] FOX: Two fer  
Message-ID: <Pine.LNX.4.44.0301092039190.2402-100000@bucket.dog>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I got the first Fox in IL while he was 599 in Southern NM. I called Alan in VA for 10 minutes and he never heard me for all the other 3 an 4 stations he was working. So had dinner and played with the dog and got Alan calling CQ at 0315 UTC and called him on his freq and he came right back.

This is the first 2 fer in several weeks.

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

-----  
Date: Thu, 9 Jan 2003 22:39:16 -0500  
From: "Bob Schreibmaier" <k3ph@ptd.net>  
To: "qrp-1" <qrp-1@lehigh.edu>  
Subject: [144378] Re: Two FOX Spots  
Message-ID: <000401c2b859\$f1cc66a0\$6800a8c0@msns.leh.ptd.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Not a peep in Eastern Pennsylvania. Can't even tell  
there's a signal there.

> Ditto in WNY...  
>  
> Al, K2ZN  
>  
> Garey Barrell wrote:  
> > Easy for you to say ...  
> >  
> > After listening to SSB and RTTY for an hour, I finally hear a couple of  
> > weak sigs buried in the crud. UA3TY and an F5, but not hide nor hair of  
> > FOXII.  
>  
>  
>

-----  
Date: Thu, 9 Jan 2003 22:40:50 -0500  
From: "Tom Palmer" <n1tp@swfla.rr.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [144379] Re: Two FOX Spots  
Message-ID: <000301c2b85a\$120cee80\$6b2a0843@swfla.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Alan (N3BJ) there in Virginia - like some ghost - arose out of deep mud here SW Florida at 0333. He is now strong on 7/040.70 listening up less than 1 kHz.

Tom, N1`TP  
Naples, Florida

-----  
Date: Thu, 9 Jan 2003 19:52:30 -0800  
From: "Trevor Jacobs" <kg6cyn@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [144380] FOXII: Portable...  
Message-ID: <006601c2b85b\$b42ae540\$f6c0b241@etclink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Gang,

Well got the 100' CFZ up behind the hotel here in Middleton, WI on Tuesday night and worked a few stations! Seems to work well. Worked Alan tonight easily, but never quite heard David K9DC..think we're a bit too close...was fun though from the hotel! Alan had quit the strapping signal into Middleton, WI tonight! Very loud Alan! Hope everyone had a good FOXII Hunt tonight. BTW Will be looking for FP's tomorrow that need my FP number, so hope to chat with some of you! Take care...

73's Trev KG6CYN  
<http://home.earthlink.net/~kg6cyn>  
<http://www.qsl.net/kg6cyn>

-----  
Date: Thu, 9 Jan 2003 23:07:18 -0500  
From: "Alan Fryer" <N3BJ@hotmail.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [144381] FOX Comments - N3BJ  
Message-ID: <0E19k4JdxVHYEuZFkTE0000111c@hotmail.com>  
MIME-Version: 1.0



Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Tough night, skip seemed very long. Action was good for the first 35 minutes, but then really took a dive. Worked about 80 stations, well below my expectations...

Some strong signals throughout the 2 hours. Propagation seemed very spotty and selective or participation was down for some reason.

More tomorrow.

Alan, N3BJ  
Bent Mountain, VA

-----  
Date: Thu, 9 Jan 2003 23:29:30 -0500  
From: "w8diz" <w8diz@fpqrp.com>  
To: <qrp-1@Lehigh.EDU>  
Cc: <fpqrp-1@fpqrp.com>  
Subject: [144382] CONTEST: WAP  
Message-ID: <004801c2b860\$de9f0590\$b8cf1d41@cinci.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

...one more solicitation for FP blood...

There is a WAP contest under way that lasts all year (with prizes). It's called the "Worked All Pigs" contest, WAP for short. The idea is to work another FP member for one point. The 5 hams with the most points at the end of the year win! There are 530+ Flying Pigs out there and we need your number. Be a sport and share your number with other piggies. You may actually enjoy the exchange.

Here is a link for the current statistics:  
<http://65.29.207.184:3737/pigs/wapshort.asp>

Rules are here: <http://fpqrp.com/wap-2003.html>

Think of it as a FAT FOX hunt with wings :)

So if you are one of the "silent" pigs, warm up your keyers and exchange your prized FP number with a fellow pig. We hang

out near 7044 most every evening. We also use an AOL chat room to assist each other. Email me for more info.

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio  
Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W  
RIG:multiPIG+ ANT:470 FT Horiz Loop <http://kitsandparts.com>

-----  
Date: Thu, 9 Jan 2003 23:46:09 -0600  
From: "George, W5YR" <w5yr@att.net>  
To: <N3BJ@hotmail.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [144383] Re: FOX Comments - N3BJ  
Message-ID: <025201c2b86b\$947fa540\$0201a8c0@fairviewtx.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Most of the time you were plenty strong in the North Texas region, Alan. Thanks for the pelt. Our NETXQRP Tornados managed another Clean Sweep with your help!

73/72, George  
Amateur Radio W5YR - the Yellow Rose of Texas  
In the 57th year and it just keeps getting better!  
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
K2 #489 IC-765 #2349 IC-756 PRO #2121 IC-756 PRO2 #3235

----- Original Message -----  
From: "Alan Fryer" <N3BJ@hotmail.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Thursday, January 09, 2003 10:07 PM  
Subject: FOX Comments - N3BJ

> Tough night, skip seemed very long. Action was good for the first  
35  
> minutes, but then really took a dive. Worked about 80 stations, well  
below  
> my expectations...  
>  
> Some strong signals throughout the 2 hours. Propagation seemed very  
spotty

> and selective or participation was down for some reason.

-----  
Date: Thu, 9 Jan 2003 23:03:35 -0800  
From: "Bob Okas" <vintage2@earthlink.net>  
To: <k4vib@att.net>  
Cc: <qrp-1@lehigh.edu>  
Subject: [144384] Re: Crossover distortion in Op-amps  
Message-ID: <FHEJJJPJADNLFNJBFOFAOE0BCCAA.vintage2@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Bill and the Group,

As others have already mentioned, most opamps use a totem-pole push-pull output stage. One transistor drives the positive peaks, and another drives the negative. High quality opamps generally bias both of these transistors on to obtain Class AB operation. At low levels, the output stage operates in Class A and both transistors conduct continuously. If an opamp exhibits crossover distortion, it's operating in Class B. There is a region where one transistor stops conducting current and the other has not yet started. What comes out of the amplifier during this time is... Nothing! When the other transistor starts conducting, the output voltage changes abruptly. This sounds really, really bad to my ears.

My first taste of truly horrible hifi was a Dynaco Stereo 120 amplifier. This was a hamfest bargain, and once I got it operating I quickly sold it. It was operating well into Class B and the crossover distortion was evident on the scope. But, I digress...

The addition of a pull-up/down resistor is a clever trick. It's a proxy which "sorta" fills in the missing signal during zero crossings. It's not exact, of course, but it should eliminate the raspy character of crossover distortion. However, one must ask, "Why not just use a better opamp?"

73,  
Bob - W3CD

-----

Date: Fri, 10 Jan 2003 06:05:51 -0600  
From: "w5tb" <w5tb@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [144385] Truffle Log w5tb 3/10/03  
Message-ID: <00b101c2b8a0\$9f23d900\$0400a8c0@altn1.tx.home.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Thanks guys -- here is my first pass at the truffle log for last night. =  
Please send any corrections as I paper log and sometimes can't read what =  
I wrote rotten ;-)

Looks like band open north (You guys in WI must have nothing better to =  
do on cold nights ;-)) and east but not much from west until tail end. =  
Nice to work old friends and new piggie Howard W7ILW!

Thanks fer the fun!

W5TB +- 7041khz 3/10/03  
5W to G5RV running Omni 6+

Time	Station	RST (S)	RST (R)	SPC	Name	Power/Truffle #
0130	wa9tze	559	579	wi	Jim	5W
31	n4bp	559	559	fl	Bob	5w
32	n9ne	559	579	wi	Todd	5w
33	k4fb	559	579	fl	Paul	124
34	n3bj	559	559	va	Alan	5w
35	k5aic	559	559	ms	Herb	4w
36	n1tp	559	599	fl	Tom	5w
36	we9k	559	559	wi	Glenn	5w
38	kk5na	559	559	tx	Joe	246
39	aj4ay	559	559	al	Jay	115
40	k0evz	559	559	nd	Doc	49
42	kb9yig	559	559	in	Bob	5w
43	k4byf	559	559	fl	Jack	5w
45	k2uod	559	599	ny	Keith	5w
46	wu9f	559	559	wi	Terry	189
47	wr5o	559	579	tx	Dave	109
48	k5dt	559	599	nm	Karl	5w
50	n3xrv	559	559	pa	Chris	5w
51	k5ot	559	559	wi	Larry	3w
52	w2xn	559	559	fl	Fred	5w
54	w9xu	559	559	wi	Lon	5w
55	k8cv	559	559	mi	Walt	5w
56	w7kxb	559	559	az	Bill	5w

58 w7ilw 559 559 az Howard 523

72, 73, oo T.E. 'Doc' Drake, W5TB  
Arlington, Texas  
FP#128  
FISTS # 5365 QRPARCI # 3532 ARRL Life Member K1 #181 K2#1617

-----  
Date: Fri, 10 Jan 2003 07:54:29 -0500  
From: "Tom Palmer" <n1tp@swfla.rr.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [144386] Re: FOX Comments - N3BJ  
Message-ID: <000301c2b8a7\$6a5faee0\$6b2a0843@swfla.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Something must be done about these "Pesky Texans" and their  
too many clean sweeps.

Tom, N1TP  
Naples, Florida

-----  
Date: Fri, 10 Jan 2003 07:59:29 -0500  
From: "Tom Palmer" <n1tp@swfla.rr.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [144387] Re: Where are the hounds?  
Message-ID: <000301c2b8a8\$1d6b8f40\$6b2a0843@swfla.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Last evening's hunt is another good example that FOX hunting  
is NOT "too easy," is NOT "no challenge," is NOT "like  
shooting fish in a barrel" yada, yada, yada.

Tom, N1TP  
Naples, Florida

Date: Fri, 10 Jan 2003 13:02:45 +0000 (UTC)  
From: "Robert M. Kimbrell" <kimbrell@sdf.lonestar.org>  
To: Bill Jones <kd7s@psnw.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [144388] Re: OT:Looking for EchoLink test  
Message-ID: <Pine.NEB.4.33.0301101300000.15982-100000@iceland.freeshell.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 9 Jan 2003, Bill Jones wrote:

> half hour. I would like to test my EchoLink setup .... I have yet to make a  
> contact. If there is anybody available to give me a call for testing  
> purposes I will be connected as KD7S. Thank you.

W7KU-L (node 8544) is always on and has wide coverage from an 8,200 ft.  
mountain so you should be able to find someone to test with there.

73,

Bob Kimbrell W7KU Kingman, Arizona  
kimbrell@freeshell.org  
<http://kimbrell.freeshell.org/>  
SDF Public Access UNIX System - <http://sdf.lonestar.org>

-----  
Date: Fri, 10 Jan 2003 08:19:50 -0500  
From: "Upton, Shawn" <SUpton@ALLEGROMICRO.com>  
To: qrp-l@lehigh.edu  
Subject: [144389] Re: Crossover distortion in op-amps  
Message-ID: <E1F0152638DBD311AEF700D0B74455E2B5F11C@exchange\_nh.allegromicro.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

I would suspect that this distortion would strongly be influenced by the  
type of op-amp being used--some are better than others. I wonder if  
decreasing the gain of the op-amp (increasing the feedback) would help cure  
cross-over problems?

I suspect that by adding a resistor to VCC/GND is attempting to "kill" off  
one side of the output of the op-amp (the emitter pair) so as to obtain a  
more linear response--an attempt to change the Class B output into a Class A  
output, by reducing the effect of one of the transistors. Ie, for a  
resistor to ground, the P type transistor (PNP mostly likely, although it  
could be a PFET) has the resistor across it, and the output, being biased at  
1/2VCC, is now solely sourcing current into the resistor, which means just

the N type transistor is "on". For the AC signal, the P type transistor (hopefully) no longer turns on, thus eliminating the crossover distortion issue.

The trick would be to swamp the impedance of the speaker/headphones by the resistor, so that the power used by the resistor is greater than the load--so that the P type transistor doesn't have to turn on negative peaks.

That's what I'm thinking--how far off am I? I'm kinda interested in this problem, as I work with op-amps quite a bit, but usually just at dc.

-----  
Date: Thu, 09 Jan 2003 19:12:03 +0000  
From: k4vib@att.net  
To: qrp-1@Lehigh.EDU  
Subject: [144348] Crossover distortion in Op-amps  
Message-ID:  
<20030109191204.FLDP20003.mtiwmhc13.worldnet.att.net@mtiwebc09>

Harry Lythall at Harry's Homebrew mentioned curing crossover distortion in an op-amp by placing a resistor between the output of the op-amp and one supply rail. He suggested a 5 to 10K resistor but 560 to 1K may be used if the opamp is driving head phones.

What does crossover distortion sound like and where does it usually occur? Is it spread evenly over the signal's variation in strength or does it usually show up on strong signals?

>From Harry's description then to cure the crossover distortion I'm connecting the 5 to 10K resistor from the output pin of the op amp to the power supply rail?

Thanks,

Bill  
K4VIB

-----  
Shawn Upton, KB1CKT  
-----

Date: Fri, 10 Jan 2003 13:20:58 GMT  
From: Wayne\_W5KDJ <w5kdj@juno.com>  
To: qrp-1@lehigh.EDU  
Subject: [144390] FOX & QRM

Message-ID: <20030110.082148.27686.200590@wm3.nyc.untld.com>

I worked both stations last nite, one with 600mw and one with 500mw.

I am having problems with some kind of hash noise with peaks every 20kc throughout the bands. Can't determine if this is local or every where. Anyone else having this problem. It started about 3 weeks ago.

Wayne\_W5KDJ  
NW Houston  
SVOWWW\_TF2WJN  
ARCI\_11325 \* ARS\_1392 \* SOC\_538

-----  
Date: Fri, 10 Jan 2003 08:41:13 -0500  
From: Bob Patten <n4bp@bellsouth.net>  
To: QRP-L Reflector <qrp-l@lehigh.edu>  
Subject: [144391] N4BP Address Change  
Message-ID: <3E1ECD79.6050009@bellsouth.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Changed from NetZero to BellSouth. Address is: n4bp@bellsouth.net

But best to use: n4bp@arrl.net since this will track any future changes.  
^^^^^^^^^^^^^^

Worked a few of youse guys from YS1/N4BP last week, thanks for the Q's.

--

73,	Bob Patten, N4BP	Plantation, FL
E-Mail:	n4bp@arrl.net	Website: <a href="http://www.qsl.net/n4bp">http://www.qsl.net/n4bp</a>
QRP ARCI	#3412	SOC #1 ARS #799 Whiners #6 FISTS #7871

-----  
Date: Fri, 10 Jan 2003 08:45:10 -0500  
From: W2AGN <w2agn@w2agn.net>



To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [144392] Re: Where are the hounds?  
Message-ID: <3E1E8816.6078.4E18E13@localhost>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

On 10 Jan 2003 at 7:59, Tom Palmer wrote:

> Last evening's hunt is another good example that FOX hunting  
> is NOT "too easy," is NOT "no challenge," is NOT "like  
> shooting fish in a barrel" yada, yada, yada.  
>  
> Tom, N1TP  
> Naples, Florida  
>  
>

That for sure! Skunked tonight. K9DC was audible a couple of times, but not copiable. DX signals were booming in.

---

+-----+ John L. Sielke  
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]  
+-----+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

-----  
Date: Fri, 10 Jan 2003 21:33:42 -0500  
From: "George Osier" <gosier@twcnny.rr.com>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [144393] Milliwatt WAS .. Got ALL cards !!!!!  
Message-ID: <002001c2b919\$dbef28c0\$aa634342@twcnny.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello All !!!!

Got a late X-mas present in the mail yesterday !!!!! A W40C card for South Carolina !!!!! So I'll be sending to the QRP-ARCI for that third and final milliwatt award !!!!!!!!!!!!!!!!!!!!!

Happy Happy New Year !!!!!!!!!!!!!!!!!!!!!

71s

George Osier , N2JNZ / QRPp

-----  
Date: Fri, 10 Jan 2003 09:46:32 -0500  
From: "Jim Stamper" <jstamper@shentel.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [144394] Re: Where are the hounds?  
Message-ID: <002001c2b8b7\$138e1600\$603e6fcc@jim>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Got home last night about 10:30 PM EST and heard no foxes, no hounds, and very few signals of any kind around 7040.

Went up to 80 M and worked Martinique QRP. Heard some DL's etc.

jim-  
KG4LDY

-----  
Date: Fri, 10 Jan 2003 10:24:51 -0500  
From: "Royce Simmons" <w2rnb@prodigy.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [144395] hambrew  
Message-ID: <000001c2b8bc\$9b68e320\$024dffd1@roycesim>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi,

While cleaning out junk I ran across a magazine named "hambrew". The Winter 1995 issue.

Really neat magazine but I don't remember how I got this one issue. Does anyone know if it is still in business?

72,  
Royce Simmons

w2rnb@prodigy.net

-----  
Date: Fri, 10 Jan 2003 07:44:43 -0800 (PST)  
From: Lloyd Lachow <llachow@yahoo.com>  
To: qrp-1@lehigh.edu  
Cc: k9nk@aol.com  
Subject: [144396] Fwd: Re: FS: Norm's Items...check it out!! One item left: SWR Meter  
Message-ID: <20030110154443.42162.qmail@web41015.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Norm, who can't post to the list at present, would like you all to know that:

Everything sold except the Radio Shack Digital SWR Bridge.

Radio Shack Digital SWR Meter - Excellent --- \$50.00 plus shipping

The SWR Bridge on its low setting will measure as low as 1-2 watts out.

Thanks again --- I may have more items next week!

...and reply to Norm, not Lloyd, to ask or buy.  
Thanks!  
Please inquire to k9nk@aol.com

-----  
Do you Yahoo!?  
Yahoo! Mail Plus - Powerful. Affordable. Sign up now.  
<http://mailplus.yahoo.com>

-----  
Date: Fri, 10 Jan 2003 10:00:00 -0600  
From: "Don Jackson (AE5K)" <don@azark.com>  
To: qrp-1@Lehigh.EDU  
Cc: fsqrp@w0ch.com  
Subject: [144397] Web seminar on Analog & Digital mixed signals

Message-ID: <3E1E99A0.19640.624655@localhost>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

We are seeing more and more homebrew applications where there is a mixture of "analog" and "digital" on the same printed circuit board. DDS vfo's and DSP applications are a couple examples.

Last month (Dec. 10), National Semiconductor had a free "webcast" presentation by Nick Gray titled "Controlling Noise and Radiation in Mixed-Signal and Digital Systems".

He presents some interesting and new (to me at least) ideas. For those who missed it, the webcast along with PDF files of his slides and Q&A may be viewed on National's website. The URL is:  
<http://www.national.com/ad/>

72/73,  
Don AE5K

-----  
Date: Fri, 10 Jan 2003 16:18:39 GMT  
From: psschwarz@kellnet.com  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [144398] Antenna Question...  
Message-ID: <20030110161839.22065.qmail@mail.kellnet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed; charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

What is an optimum height for an HF antenna between 10-20m? Does it make a difference if the 10m section of a multiband vertical is closer to the ground and bottom fed or at the top and top fed? Or does it solely depend on the nature of its surroundings like an aluminum sided house? (I understand distance relative to rf exposure and this is no concern)

Patrick...KB8RTZ...

-----  
Date: Fri, 10 Jan 2003 10:25:37 -0700  
From: "Chris Trask" <chistrask@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [144399] Communication Concepts  
Message-ID: <002f01c2b8cd\$4b558ee0\$a38d9a40@ctrask>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Does anyone know if Communication Concepts Inc. still exists? I've looked for them on the web and all of the links I've tried have turned into dead ends.

Chris

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High Performance Mixers and  
Amplifiers for RF Communications

Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: [chistrask@earthlink.net](mailto:chistrask@earthlink.net)  
<http://www.home.earthlink.net/~chistrask>

Graphics by Loek Frederiks

-----  
Date: Fri, 10 Jan 2003 10:31:18 -0700 (MST)  
From: Brian Milesosky <n5zgt@swcp.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [144400] Non Linear Devices Mini-Scope?  
Message-ID: <Pine.GS0.4.10.10301101027440.20536-1000000@yagi.swcp.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

Does anyone have the URL for Non-Linear Devices, if they are still in business? I have an older mini-oscilloscope of theirs (with probes), and I am looking to get some more information about it -- I'm thinking of selling it, and am seeing what kind of price is decent to ask. Any ideas?

I'm not looking to get rich off the thing, but I'm also not

intending to practically give it away either. Sorry, I do not have the model number handy...it's at home right now. I'll provide it to the list if anyone is interested later on today.

72,  
Brian, N5ZGT

---

Amateur Radio Station N5ZGT - N5ZGT PBBS, 145.01 MHz  
ARRL Life Member, NorCal #1700 QRP-L #580 AK/QRP #125

Boy Scouts of America - Eagle Scout 12/6/96 - ASM, Troop 85  
Vigil Honor Member, O.A. Lodge 66 Yah-Tah-Hey-Si-Kess

Please visit my site at <http://www.unm.edu/~brianm>

---

---

Date: Fri, 10 Jan 2003 10:38:15 -0700  
From: "Chris Trask" <chistrask@earthlink.net>  
To: "Jim Pruitt" <PruittJ@cwu.EDU>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [144401] Re: Communication Concepts  
Message-ID: <006101c2b8cf\$0f9d3fe0\$a38d9a40@ctrask>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Yes, I got it finally. Might have been an Earthlink glitch such as the one I had last week when trying to access a couple of IEEE pages. Thank you.

Chris

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High Performance Mixers and  
Amplifiers for RF Communications

Chris Trask / N7ZWY  
Principal Engineer  
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P.O. Box 25240  
Tempe, Arizona 85285-5240

IEEE Member #40274515

'-| )\_\_| :. \                      Email: christrask@earthlink.net  
| | | | \ ' .                      http://www.home.earthlink.net/~christrask  
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Graphics by Loek Frederiks

----- Original Message -----

From: "Jim Pruitt" <PruittJ@cwu.EDU>

To: <christrask@EARTHLINK.net>

Sent: Friday, January 10, 2003 10:28 AM

Subject: Re: Communication Concepts

> http://www.communication-concepts.com/ comes up ok for me.

>

> Jim Pruitt

>

>

> >>> Chris Trask <christrask@EARTHLINK.net> 01/10/03 09:25AM >>>

> Does anyone know if Communication Concepts Inc. still exists?

> I've

> looked for them on the web and all of the links I've tried have turned

> into

> dead ends.

>

> Chris

>

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>                      oo\                      Principal Engineer  
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>                      \        /                      Tempe, Arizona 85285-5240

>                      \        /                      IEEE Member #40274515

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>                      '-| )\_\_| :. \                      http://www.home.earthlink.net/~christrask  
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> Graphics by Loek Frederiks

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>

-----  
Date: Fri, 10 Jan 2003 17:37:04 +0000  
From: k4vib@att.net  
To: qrp-l@Lehigh.EDU  
Subject: [144402] Re: Crossover distortion in Op-amps  
Message-ID: <20030110173706.GNTV20003.mtiwmhc13.worldnet.att.net@mtiwebc20>

I believe my problem is with clipping in the LM386. Looking at my scope at the wave form the tops get clipped as the signal amplitude increases.

The big problem is with noise coming out of the opamp. It's a big wide band on the scope with an occasional sine wave from a signal appearing at the top and bottom. If the signal is large enough then the sine waves appear way beyond the top and bottom of the noise band.

Now...how do I try and get rid of the noise coming from that opamp. When I hook the scope up to the BFO the band of noise isn't there.

Thanks for the help everyone.

Bill  
K4VIB

> Bill and the Group,

>

> As others have already mentioned, most opamps use a totem-pole push-pull  
> output stage. One transistor drives the positive peaks, and another drives  
> the negative. High quality opamps generally bias both of these transistors  
> on to obtain Class AB operation. At low levels, the output stage operates in  
> Class A and both transistors conduct continuously. If an opamp exhibits  
> crossover distortion, it's operating in Class B. There is a region where one  
> transistor stops conducting current and the other has not yet started. What  
> comes out of the amplifier during this time is... Nothing! When the other  
> transistor starts conducting, the output voltage changes abruptly. This  
> sounds really, really bad to my ears.

>

> My first taste of truly horrible hifi was a Dynaco Stereo 120 amplifier.  
> This was a hamfest bargain, and once I got it operating I quickly sold it.  
> It was operating well into Class B and the crossover distortion was evident  
> on the scope. But, I digress...

>

> The addition of a pull-up/down resistor is a clever trick. It's a proxy  
> which "sorta" fills in the missing signal during zero crossings. It's not



> exact, of course, but it should eliminate the raspy character of crossover  
> distortion. However, one must ask, "Why not just use a better opamp?"  
>  
> 73,  
> Bob - W3CD  
>  
>  
>  
>

-----  
Date: Fri, 10 Jan 2003 19:53:52 -0200  
From: Paul Mooney <mooney@cytanet.com.cy>  
To: w2rbn@prodigy.net,  
    "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [144403] Re: hambrew  
Message-ID: <200301101953.52013.mooney@cytanet.com.cy>  
Content-Type: text/plain;  
    charset="iso-8859-1"  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable

On Friday 10 January 2003 1:24 pm, Royce Simmons wrote:  
> Hi,  
>  
> While cleaning out junk I ran across a magazine named "hambrew". The  
> Winter 1995 issue.  
>  
> Really neat magazine but I don't remember how I got this one issue. Does  
> anyone know if it is still in business?  
>  
> 72,  
> Royce Simmons  
> w2rbn@prodigy.net

I've done a google search, contacted the guy who I identified as the author=20  
for details.

When I get a reply I'll post to the group rather than snow him under with=20  
others doing the same thing.

BFN

paul M.

-----  
Date: Fri, 10 Jan 2003 12:50:53 -0500  
From: "Randy Randall" <RANDALLR@Healthall.com>  
To: <qrp-l@Lehigh.EDU>, <n5zgt@swcp.com>  
Subject: [144404] Re: Non Linear Devices Mini-Scope?  
Message-ID: <se1ec1bd.030@jhs\_izar.healthall.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Content-Disposition: inline

They are still in business, although they do not sell scopes any longer.  
15 MHz scope \$50.00 - \$75.00, 30 MHz \$75.00 - \$125.00 maybe \$150.00 on  
a good day with new batteries. Neat super small analog scope. I have  
used one on the job for many years and liked it so much I purchased one  
used when I had the chance.

Hope this helps,  
Randy AB9GO

>>> Brian Mileschosky <n5zgt@swcp.com> 01/10/03 12:31PM >>>  
Hi All,

Does anyone have the URL for Non-Linear Devices, if they are  
still  
in business? I have an older mini-oscilloscope of theirs (with  
probes),  
and I am looking to get some more information about it -- I'm thinking  
of  
selling it, and am seeing what kind of price is decent to ask. Any  
ideas?

I'm not looking to get rich off the thing, but I'm also not  
intending to practically give it away either. Sorry, I do not have the  
model number handy...it's at home right now. I'll provide it to the  
list  
if anyone is interested later on today.

72,  
Brian, N5ZGT

-----  
Amateur Radio Station N5ZGT - N5ZGT PBBS, 145.01 MHz  
ARRL Life Member, NorCal #1700 QRP-L #580 AK/QRP #125

Boy Scouts of America - Eagle Scout 12/6/96 - ASM, Troop 85  
Vigil Honor Member, O.A. Lodge 66 Yah-Tah-Hey-Si-Kess

Please visit my site at <http://www.unm.edu/~brianm>

---

---

Date: Fri, 10 Jan 2003 13:16:41 -0500  
From: Pete Burbank <plburbank@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [144405] Fox: Re: Where are the hounds?  
Message-ID: <5.2.0.9.0.20030110130410.00a23240@Earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

I think there must be some kind of massive RF suction device in Texas....:-)  
I knew this hunt was going to be tough because of the closeness between KY  
and Indy and Roanoke.  
So I switched back and forth between the vertical and a horiz loop to no avail.  
Oh well, no pelts but still fun....:-)  
73 to all  
Pete NV4V  
KY

---

Date: Fri, 10 Jan 2003 12:24:36 -0600  
From: "pschweit" <pschweit@mninter.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [144406] WE6W Resonant Speaker (N5FC Prototype) << KA0PGQ variant  
Message-ID: <003101c2b8d5\$89446160\$55e8add1@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I built a resonant speaker based on the design put forward

[http://www.io.com/%7En5fc/res\\_spkr.htm](http://www.io.com/%7En5fc/res_spkr.htm)

I looked at the design put forward and surmised that it was  
analogous(resonance wise) to a 1/4 wave vertical with radials.

To both simplify materials procurement and to test an idea I adjusted the

design into a dipole concept.

#### BOM

2 x 8 inch sections of 2 inch id pvc pipe  
1 2 inch pvc splice  
1 closed piston  
1 open piston( similar to original design((1 inch inside diameter)) 2 inch  
piece of 1 inch id pvc )  
1 1 inch od speaker(available at radio shack)  
epoxy + wire

I mounted the floating speaker inside the pvc splice ring using wire and epoxy. The pistons were made from 1 1/2 inch splice rings capped with flat pvc. ( epoxy , dremel, and sanding to shape)

The tune-up was a bit trickier since the feedpoint needs to be centered between the pistons.

I do not have access to any audio measurement equipment but,

\*\* The speaker does demonstrate sharp skirts and rejection. I tuned in a CW conversation on 20 and unless both stations were exactly on the same freq you needed to tune back and forth. The width of the filter is definitely in the 50 hz range. The rejection of static and band noise is very impressive.

I would like to have my version of resonant speaker measured for performance characteristics. Anyone in minnesota have access to the proper equipment?

DE KA0PGQ  
rob

-----  
Date: Fri, 10 Jan 2003 13:33:06 EST  
From: ARDUJENSKI@aol.com  
To: qrp-l@lehigh.edu  
Subject: [144407] Variable height vertical  
Message-ID: <f8.275a42b0.2b506be2@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Well I did some evaluation on EZNEC DEMO looking at lobe patterns for various

heights to be able to maximize my signal. Depending upon who I need to work will dictate the pattern. I had a unique opportunity to work air mobile, a private flight over the Pacific on 15m. At 28ft (about 5/8 wl) I had an OK signal but went to 42ft (very high lobe) and got a booming signal report.

Takes me about 2 minutes to change heights.

That SteppIR variable vertical sure has some promise....hmmmm. Interesting experiment. With a motor driven unit you can probably vary the height until you get max signal vs best impedance match. This way you can maximize your QRP signal.

By the way this is vertical made up of aluminum tubing from Texas Towers with max height of 42ft and low height of 7ft and using 12 --16ft radials. Each section is 6ft and I have several inches overlap....Alan KB7MBI

-----  
Date: Fri, 10 Jan 2003 13:33:29 -0500  
From: Kenneth Hoglund <hoglund@wfu.edu>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [144408] Jerry Parker ok?  
Message-ID: <3E1F11F9.C4867422@wfu.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Any Norcal folks know if Jerry is ok? I sent him an email sometime ago and haven't had a reply. Just wondering....

73  
Ken KG4FGC

-----  
Date: Fri, 10 Jan 2003 11:48:51 -0700  
From: "Bob Hightower" <nk7m@extremezone.com>  
To: <qrp-l@lehigh.edu>  
Subject: [144409] "Test"  
Message-ID: <000201c2b8d8\$ee7384f0\$504998d0@Bobs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="US-ASCII"  
Content-Transfer-Encoding: quoted-printable

Testing...sent a note last night, and haven't seen it yet.

Just checking.

Bob NK7M

-----  
Date: Fri, 10 Jan 2003 13:52:02 -0500  
From: Alex <kr1st@amsat.org>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [144410] Never new T was a hard letter to copy.  
Message-ID: <3E1F1652.270EC8E3@amsat.org>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Hi there,

I'm relearning CW using G4FON's excellent software. After I pasted the test I never did anything with it until I decided a few weeks ago that I want to get on the air with CW. Now I wish I never learned 5wpm using Farnsworth but rather had learned CW using Kock right from the start. I'm learning at 20wpm character speed and 15wpm word speed. I've tried 20/20 for a few weeks, but I simply can not write fast enough. Progress is very slow, but i figure that when I'm done (if there is such a thing) I can do at least 15wpm. Anyway, I'm only at the 8th character now, the "t". The funny thing is that I have a very hard time copying it. I guess that's because with all the previous letters there was always something following the first dit or dah. Every time a t comes along it surprises me. I guess it's really going to be fun when the "e" comes along. :)

A really neat feature is that G4FON's software allows you to make soundtracks so you can make a practice CD. I've done this and almost every time I drive to and from work I listen to it and try to copy it. The CD tracks contain all characters and not just the ones I'm working on with the software. I'm not sure if that's wise or not, but I'm sure it will help me somewhat anyway.

Just having fun.

73,  
--Alex KR1ST

-----  
Date: Fri, 10 Jan 2003 09:53:39 -0900  
From: "Jim Larsen, AL7FS" <JimLarsen2002@alaska.net>

To: "qrp-1@lehigh.edu" <qrp-1@lehigh.edu>  
Subject: [144411] FS: KG6CYN Experimenter's DDS Signal Generator boards  
Message-ID: <3E1F16B3.2090204@alaska.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

I am not going to get to this project at all so I have two board sets for sale. Each is offered at the original cost of \$22.50 each and I will cover USPS mail. There is currently a group buy in progress on the parts for these.

Contact Paul, KB0LUR, at [ermisch@usa.net](mailto:ermisch@usa.net) for details of the group buy. I think he is closing it out by next week some time so you will need to move quickly.

73, Jim

--

Jim Larsen, AL7FS  
Anchorage, Alaska  
<http://www.qsl.net/al7fs/>

=====  
From: [http://home.earthlink.net/~kg6cyn/DDS\\_Project.htm](http://home.earthlink.net/~kg6cyn/DDS_Project.htm)  
This is only an excerpt of a much more complete writeup.

An Experimenter's DDS Signal Generator

Last Updated: November 5th, 2002

Introduction:

This project started out of the need for an agile, accurate, stable frequency source for home brew projects. It started as a fairly small project and (as most of you know who home brew) kept getting bigger and bigger with more useful features in software and lot's of hardware changes. I almost gave up on it at one time as I was losing interest, but Dave WD4PLI/6 convinced me to keep working on it as he needed such a device for one of his Lowfer projects, so I kept trudging along in my spare time. I got a lot of encouragement from several local (and not so local) Hams including Joe W1GFH/6, Dave WD4PLI/6, Mike K06NM, Bill N6PY, Skip K6LGL, Brice KA8MAV, and Steven KD1JV gave me a lot of really good advice (thanks Steve!). The finished product works well and gets used almost on a daily basis in the shack driving anything from one of Dave Benson's SW-40+'s to my old Johnson Viking II. It's been a rock solid performer and a really indispensable accessory to have around.

Basic Specs and Features:

Tuning Range: 1 Hz to 40 MHz Continuous

Tuning Resolution: Adjustable from 1 Hz to 1 MHz

Output: Buffered 1 Vpp into 50 Ohms for 50KHz to 40 MHz - Non Buffered Output also provided

Frequency Memories: 51 Frequency Memories (0 - 50) / Memory 0 is the Startup Frequency

Split Frequency Operation: Both RX and TX Frequencies Displayed and adjustable on the fly

Programmable RX Offset Frequencies (for use with Superhets such as the SW-40+)

Programable CW Offset (CW Tone) Adjustable +/- on the fly (or no Offset for Zero Beat)

Controls: 1 Encoder, 2 Momentary Push Buttons (TS and RX TX Adjust), 1 SPST Toggle Switch (Single/Split Frequency Mode)

Keying (TX) Line: Active Low

Built in Software Frequency Calibration (Zero Beat WWV on 10 MHz or use a Frequency Counter)

Generous prototyping area on the DDS PCB

All unused pins of the DDS plus 1 CPU port pin and VCC and V+ are brought out to a header for mods

Encoder Interface supports mechanical or optical encoder

ISP Port included for use with Parallel Port ISP Software and the AT89S8252 Firmware Uploader Interface to burn new Firmware into the Microcontroller

-----  
Date: Fri, 10 Jan 2003 14:00:38 -0500  
From: "Mike Branca" <w3irz@att.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [144412] Re: hambrew  
Message-ID: <03ac01c2b8da\$9101f0c0\$c3f35b0c@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"



Content-Transfer-Encoding: 7bit

This pub went belly up in 1998. Seems that they had a lot of competition with the QRP press. Hambrew was not limited to QRP and that may have had something to do with it. Also it was a one man show and he got plumb wore out.

Mike Branca W3IRZ in Conyers Georgia

-----  
Date: Fri, 10 Jan 2003 13:17:24 -0600  
From: "George, W5YR" <w5yr@att.net>  
To: <n1tp@swfla.rr.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [144413] Re: FOX Comments - N3BJ  
Message-ID: <00f001c2b8dc\$e970e0c0\$0201a8c0@fairviewtx.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Gee, Tom, but it is hard to contain pure talent . . . plus good propagation (at times), God's favored location on Earth, good equipment, cooperative Foxii and lots of luck!

I should add that the NE-TX Tornadoes team is comprised of Old Farts with a couple of hundred collective years in ham radio, CW, etc. mostly working weak signals, etc. Our team slogan is "If we can hear them, we will work them." How's that for Pesky Texas bragging? <:}

Thanks for the compliment, though - however left-handed! <:}

73/72, George  
Amateur Radio W5YR - the Yellow Rose of Texas  
In the 57th year and it just keeps getting better!  
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
K2 #489 IC-765 #2349 IC-756 PRO #2121 IC-756 PRO2 #3235

----- Original Message -----  
From: "Tom Palmer" <n1tp@swfla.rr.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Friday, January 10, 2003 6:54 AM  
Subject: Re: FOX Comments - N3BJ

> Something must be done about these "Pesky Texans" and their

> too many clean sweeps.  
>  
> Tom, N1TP  
> Naples, Florida  
>

-----  
Date: Fri, 10 Jan 2003 11:17:38 -0800  
From: "N4LGH" <n4lgh@waveguide.us>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [144414] OT: Practical joke on a ham  
Message-ID: <GNEOLGDJD0PEALHJMKLCAEEIDFAA.n4lgh@waveguide.us>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

We all told him CW was going to his head.

After a few times mentioning he had heard CW in his dreams, we couldn't resist ...

We set up a code practice tape in a portable recorder and placed it strategically in a desk in a cubicle across from him. He couldn't \*quite\* make it out.

The first few days he didn't say anything. The young lady at that particular desk would turn on the practice tape at random times during the day, and never the same spot in the tape.

Then one day they had a meeting. I was lucky enough to be invited as a consultant. (what a setup, huh?) As the meeting progressed, the young lady turned the code up little by little. This time we were using a 20 wpm practice tape.

"Can you guys hear that?" "Hear what?" we all had our poker faces on. She turned it up louder. "C'mon, you guys gotta hear that!" "Hear WHAT?" I still couldn't believe we were all totally able to keep a straight face.

She turned it down a little and no one said anything for the rest of the meeting.

The desk thing went on for a couple of weeks, Only once or twice he joked about hearing morse code. His time was coming ...

We rigged the bathroom so he could hear it in there faintly. He had to turn

the fan off (and hence the lights) to be able to hear the code. (we changed the tapes regularly so there was no way he could recognize any patterns.)

I imagine it was everything the people in the office could do to keep this up. Every time he'd start looking 'round to see if he could figure out where the code was coming from, she'd turn it down so he couldn't quite figure things out.

Then they had another meeting where I was (setting him up) invited as a consultant. I had told the young lady this time, keep turning the code up until it reached a deafening volume.

As it got so loud as it was actually interfering with him hearing the meeting, he stood up and blurted "this is nuts - you guys gotta hear that!" We all just looked at him as if he were a carnival attraction. He put his hands on his ears "Come on!"

"I think you should sit down. Are you having personal problems at home, (name) ? Maybe you should take some time off." You could see the look in his face - he was about to pop. Is he really crazy? What is going on? I can only imagine what was going on inside his head.

"What is the code saying, (name)" I asked. "It's too loud! Too loud! Make it stop!" he was pulling the hair outta his head.

Then, his boss couldn't handle it any more and started laughing his head off. "SMILE! You're on candid camera!" he shouted. The young lady came in with the tape recorder, and we all busted up. He realized that the whole company was in on it, and since he really did have a great sense of humor had to bust up himself.

The look on his face when he realized the whole thing was a setup was priceless.

Tracy N4LGH

★★

The names have been withheld from this recap to protect MY BUTT!

-----

Date: Fri, 10 Jan 2003 14:30:30 -0500  
From: "George Osier" <gosier@twcnny.rr.com>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [144415] Antenna Height ???????  
Message-ID: <002401c2b8de\$bcd4d40\$aa634342@twcnny.rr.com>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello All !!!!

I realize I can look this up but I am just looking for facts and opinions on antenna height and how it effects performance ..... I am looking for real-life experiences and how you , the people in the group , feel about the subject.....

I have a 51 ft G5RV sloping from 20 ft up to 5 feet at the lowest point ..... Sorry , thats all I got for 40 thru 15 meters HIHI .....

Performance on 15 is ok, 20 is very good, 40 is good .....

30 meters is terrible and thats the band that I would really enjoy doing better on.....

73s

George Osier , N2JNZ / QRP

-----  
Date: Fri, 10 Jan 2003 12:51:43 -0700  
From: William R Colbert <w5xe@juno.com>  
To: gosier@twcny.rr.com, qrp-l@lehigh.edu  
Subject: [144416] Re: Milliwatt WAS .. Got ALL cards !!!!!  
Message-ID: <20030110.125144.-447335.0.w5xe@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Congratulations George on a job well done, quite a remarkable task and I envy you. Maybe next will be the all county QRPpp?

73

Ray

So much to absorb, so little sponge!  
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M  
NARTE-NCT2R QRP-ARCI 5784  
El Paso, (FAR WEST) TEXAS

-----

Date: Fri, 10 Jan 2003 14:51:13 -0500  
From: Pete Burbank <plburbank@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [144417] Re: Non Linear Devices Mini-Scope?  
Message-ID: <5.2.0.9.0.20030110143457.00a2a700@Earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Brian,  
Yes they are still cooking but concentrating on instrumentation.  
I have a dual trace MS-215 and it is pretty handy as it allows measurements  
"off ground".  
The last address I have is Del Mar, California.  
IMHO....it's a good instrument to hang on to.  
Anybody know of a good source for the Cyclon batteries?  
73  
Pete NV4V  
KY

-----  
Date: Fri, 10 Jan 2003 14:28:12 -0500  
From: "Ed Kessler" <aa3sj@arrl.net>  
To: qrp-1@Lehigh.EDU  
Subject: [144418] WTB: Yaesu Hand Mic  
Message-ID: <3E1ED87C.15059.99FDCAB@localhost>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

Good afternoon,

I'm looking for a used / new Yaesu mic. Most models designed for  
a desktop HF radio will work, e.g., MD-1, MH-1, YM-35.

Any extras laying around??

73  
Ed AA3SJ

-----  
Date: Fri, 10 Jan 2003 15:03:24 -0800

From: "W2WU" <w2wurjj@verizon.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [144419] OT NIMH Batteries  
Message-ID: <001601c2b8fc\$7f8531a0\$80fa998d@w2wurjj>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

How much better are NIMH than stock Ni-Cad for the FT50 or other HT?

-----  
Date: Fri, 10 Jan 2003 12:08:11 -0800  
From: "Bob Okas" <vintage2@earthlink.net>  
To: <k4vib@att.net>  
Cc: <qrp-1@lehigh.edu>  
Subject: [144420] Re: Crossover distortion in Op-amps  
Message-ID: <FHEJJJPJADNLFNJBNOFAGEOFCCAA.vintage2@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Sounds like you're homebrewing a rig. Can you clarify a statement: Do you mean that the LM386 noise disappears when you connect a scope probe to the BFO output? The LM386 must be bypassed as close to the power pin as possible. Otherwise, it will have a tendency to oscillate. I once breadboarded a LM386 amp on a solderless protoboard. The results were less than expected. Moving the design to Manhattan construction made the chip perform to spec. Are you connecting a cap across pins 1 & 8 for extra gain? Is pin 7 bypassed to ground? If the signal source is noisy, you might try bypassing the input pin with a 0.01 cap to reduce the noise.

73,  
Bob - W3CD

From your description, the LM386 might be oscillating, something it can readily do if it's not adequately bypassed.

> I believe my problem is with clipping in the LM386. Looking at my scope at the  
> wave form the tops get clipped as the signal amplitude increases.

> The big problem is with noise coming out of the opamp. It's a big wide band on

> the scope with an occasional sine wave from a signal appearing at the top  
and  
> bottom. If the signal is large enough then the sine waves appear way  
beyond  
> the top and bottom of the noise band.

> Now...how do I try and get rid of the noise coming from that opamp. When  
I  
> hook the scope up to the BFO the band of noise isn't there.

> Thanks for the help everyone.

> Bill  
> K4VIB

-----

Date: Fri, 10 Jan 2003 15:07:16 -0500  
From: mykeyw9@aol.com  
To: qrp-1@lehigh.edu  
Subject: [144421] AOL8  
Message-ID: <04EA4EE0.7EE83F4A.002106CB@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: 8bit

Trying to post using plain text on AOL8.

W9UQB Mike

-----

Date: Fri, 10 Jan 2003 15:24:54 -0500  
From: "JB Crafts" <jbcraft@adelphia.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [144422] communication concepts  
Message-ID: <00b301c2b8e6\$5713cee0\$3bd73218@lbrtoh.adelphia.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

try this  
<http://www.communication-concepts.com/>

Bob K8YS

-----  
Date: Fri, 10 Jan 2003 15:27:16 -0500  
From: "JB Crafts" <jbcraft@adelphia.net>  
To: <plburbank@earthlink.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [144423] Re: Non Linear Devices Mini-Scope?  
Message-ID: <00b401c2b8e6\$abce2d40\$3bd73218@lbrtoh.adelphia.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The last time I saw batteries, Mendelson's in Dayton had a bunch. They are used in EXIT signs.

I used to have a NLS 15 MHz portable scope, I wish I had another.

Bob K8YS

-----  
Date: Fri, 10 Jan 2003 15:49:45 -0500 (Eastern Standard Time)  
From: "Pastor-kc1di" <elbc2@gwi.net>  
To: <gosier@twcnny.rr.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [144424] Re: Antenna Height ???????  
Message-ID: <3E1F31E9.000004.01864@DOR>  
MIME-Version: 1.0  
Content-Type: Text/Plain  
Content-Transfer-Encoding: quoted-printable

=0D  
The G5RV is a poor performer on 30M both the 102 and the 51 foot version=  
s.=20  
if fed with coax .. you can solve the problem by running twin lead all th=  
e  
way to the tuner.. it will then play on 30m.. well. =0D  
73 dave =0D

=0D  
-----Original Message-----=0D  
=0D  
From: gosier@twcnny.rr.com=0D  
Date: Friday, January 10, 2003 2:31:11 PM=0D  
To: Low Power Amateur Radio Discussion=0D



Subject: Antenna Height ???????=0D

=0D

Hello All !!!!=0D

=0D

I realize I can look this up but I am just looking for facts and opinions=  
on=0D

antenna height and how it effects performance ..... I am looking for=0D  
real-life experiences and how you , the people in the group , feel about =  
the=0D

subject.....=0D

=0D

I have a 51 ft G5RV sloping from 20 ft up to 5 feet at the lowest point=0D  
=2E..... Sorry , thats all I got for 40 thru 15 meters HIHI .....=  
=2E..=0D

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=0D

Performance on 15 is ok, 20 is very good, 40 is good .....=0D

=0D

30 meters is terrible and thats the band that I would really enjoy doing=0D  
better on.....=0D

=0D

73s=0D

=0D

George Osier , N2JNZ / QRP=0D

=0D

=0D

=2E=20

-----  
Date: Fri, 10 Jan 2003 12:59:24 -0800

From: Bob Nielsen <nielsen@oz.net>

To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [144425] Re: Communication Concepts

Message-ID: <20030110205924.GB15336@n7xy.net>

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Disposition: inline

I just was able to bring up their web page:

<http://www.communications-concepts.com>

Bob, N7XY

--

Bob Nielsen, N7XY

n7xy@n7xy.net

Bainbridge Island, WA

IOTA NA-065, USI WA-028S

On Fri, Jan 10, 2003 at 10:25:37AM -0700, Chris Trask wrote:

> Does anyone know if Communication Concepts Inc. still exists? I've  
> looked for them on the web and all of the links I've tried have turned into  
> dead ends.

>

> Chris

>

> /-----.  
> / What's all this \ High Performance Mixers and  
> / extinct stuff, anyhow? / Amplifiers for RF Communications

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Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: [chistrask@earthlink.net](mailto:chistrask@earthlink.net)  
<http://www.home.earthlink.net/~chistrask>

Graphics by Loek Frederiks

-----

Date: Fri, 10 Jan 2003 14:13:16 -0700

From: "Chris Trask" <[chistrask@earthlink.net](mailto:chistrask@earthlink.net)>

To: <[nielsen@oz.net](mailto:nielsen@oz.net)>,

"Low Power Amateur Radio Discussion" <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>

Subject: [144426] Re: Communication Concepts

Message-ID: <000c01c2b8ed\$194f9100\$57233941@ctrask>

MIME-Version: 1.0

Content-Type: text/plain;

charset="Windows-1252"

Content-Transfer-Encoding: 7bit

Thank you. I got it earlier. Must have been a problem with Earthlink,  
just like last week when I couldn't get to a couple of IEEE pages.

Chris

/-----.  
/ What's all this \ High Performance Mixers and  
/ extinct stuff, anyhow? / Amplifiers for RF Communications

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Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: [chistrask@earthlink.net](mailto:chistrask@earthlink.net)  
<http://www.home.earthlink.net/~chistrask>

Graphics by Loek Frederiks

----- Original Message -----

From: "Bob Nielsen" <[nielsen@oz.net](mailto:nielsen@oz.net)>  
To: "Low Power Amateur Radio Discussion" <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>  
Sent: Friday, January 10, 2003 1:59 PM  
Subject: Re: Communication Concepts

> I just was able to bring up their web page:  
> <http://www.communications-concepts.com>

>  
> Bob, N7XY

>  
> --  
> Bob Nielsen, N7XY [n7xy@n7xy.net](mailto:n7xy@n7xy.net)  
> Bainbridge Island, WA  
> IOTA NA-065, USI WA-028S

>  
> On Fri, Jan 10, 2003 at 10:25:37AM -0700, Chris Trask wrote:  
> > Does anyone know if Communication Concepts Inc. still exists? I've  
> > looked for them on the web and all of the links I've tried have turned  
into  
> > dead ends.

> >  
> > Chris

> >  
> > ,-----.  
> > / What's all this \ High Performance Mixers and  
> > / extinct stuff, anyhow? / Amplifiers for RF Communications  
> > \ -----'  
> > \_ | / Chris Trask / N7ZWY  
Principal Engineer

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Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: christrask@earthlink.net  
<http://www.home.earthlink.net/~christrask>

Graphics by Loek Frederiks

Date: Fri, 10 Jan 2003 14:14:14 -0700  
From: "Chris Trask" <chrisrask@earthlink.net>  
To: <jbcraft@adelphia.net>,  
"Low Power Amateur Radio Discussion" <grp-l@lehigh.edu>  
Subject: [144427] Re: communication concepts  
Message-ID: <002201c2b8ed\$3b648ac0\$57233941@ctrask>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Chris

Graphics by Loek Frederiks

----- Original Message -----

From: "JB Crafts" <jbcraft@adelphia.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Friday, January 10, 2003 1:24 PM  
Subject: communication concepts

> try this  
> <http://www.communication-concepts.com/>  
>  
> Bob K8YS  
>  
>

-----

Date: Fri, 10 Jan 2003 16:49:18 +0000  
From: Larry Cahoon <lejek@erols.com>  
To: gosier@twcny.rr.com,  
      "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [144428] Re: Milliwatt WAS .. Got ALL cards !!!!!  
Message-ID: <5.1.0.14.0.20030110164837.00bb5c08@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Congradulations George - a job well done.

73 de Larry.....WD3P in MD  
<http://www.wd3p.net/>

At 09:33 PM 1/10/2003 -0500, George Osier wrote:

>Hello All !!!!!

>

>Got a late X-mas present in the mail yesterday !!!!! A W40C card for South  
>Carolina !!!!! So I'll be sending to the QRP-ARCI for that third and final  
>milliwatt award !!!!!!!!!!!!!!!!!!!!!

>

>Happy Happy New Year !!!!!!!!!!!!!!!!!!!!!

>

>71s

>  
>George Osier , N2JNZ / QRPp

-----  
Date: Fri, 10 Jan 2003 16:34:51 -0500 (EST)  
From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>  
To: unlisted-recipients;; (no To-header on input)  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [144429] Re: Milliwatt WAS .. Got ALL cards !!!!!  
Message-ID: <Pine.LNX.4.44.0301101633480.20338-100000@w3eax.umd.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Congrats, George!

Might I inquire to ask the list if anyone knows of an award that's WAS  
2xQRP?

> At 09:33 PM 1/10/2003 -0500, George Osier wrote:  
> >Hello All !!!!!  
> >  
> >Got a late X-mas present in the mail yesterday !!!!! A W40C card for South  
> >Carolina !!!!! So I'll be sending to the QRP-ARCI for that third and final  
> >milliwatt award !!!!!!!!!!!!!!!!!!!!!  
> >  
> >Happy Happy New Year !!!!!!!!!!!!!!!!!!!!!  
> >  
> >71s  
> >  
> >George Osier , N2JNZ / QRPp  
>

--  
Scott Rosenfeld ARS N7JI  
541-684-9970 Eugene, OR Land o' much rain  
If you find me on the air, I'm probably in my car  
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

-----  
Date: Fri, 10 Jan 2003 16:44:15 -0500  
From: n8qxb <n8qxb@earthlink.net>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [144430] FS: MFJ-9040 QRP Transceiver w/ MFJ-412 Curtis keyer  
Message-ID: <3E1F3EAF.4060004@earthlink.net>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

FS: MFJ-9040 QRP Transceiver w/ MFJ-412 Curtis keyer  
Includes manual and original box  
Condition: Mint  
Price: \$125.00 w/ free shipping conus

If interested please contact via e-mail

Tom  
n8qxb@earthlink.net

-----  
Date: Fri, 10 Jan 2003 14:50:41 -0700  
From: "Bud Haynes" <BudHaynes@peoplepc.com>  
To: <w2wurjj@verizon.net>,  
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [144431] Re: OT NIMH Batteries  
Message-ID: <002701c2b8f2\$53beba00\$5efa3841@bud>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "W2WU" <w2wurjj@verizon.net>  
> How much better are NIMH than stock Ni-Cad for the FT50 or other HT?  
>

Glad you asked this question. I just picked up a nice used FT-50R. In the manual in says:  
Caution: The FBA-15 must not be used with rechargeable cells. It lacks the necessary thermal and overcurrent protection circuits provided in the FNB series Ni-Cd Packs.

Has anyone been using NIMH with no problems?

Maybe you can help me, if you have the NC-60B charger could you tell me the voltage and current output?

Bud - KV7G - Yuma, AZ

Mailto: BudHaynes@peoplepc.com  
Web Page: www.qsl.net/kv7g

-----  
Date: Fri, 10 Jan 2003 13:51:27 -0800  
From: Dick Ballard <ballardr@att.net>  
To: qrp-l@Lehigh.EDU  
Subject: [144432] Crossover distortion in Op-amps  
Message-ID: <91gu1vchf1kmjj2fk50tt44jvei6mdg84j@4ax.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: quoted-printable

I emailed you the opamp analysis beginning in the third paragraph below before your later post appeared detailing the "noise". I see that others have suggested that the problem is with an LM386 oscillating because of inadequate power supply bypassing. So this analysis is probably irrelevant to your current problem, but I'll post it here anyway to clarify the crossover issue.

The LM386 is not really an opamp ("operational amplifier") in the usual sense. It is a dedicated adjustable gain audio power amplifier. The LM386 has built in feedback to set the closed loop gain from 20 to 200 according to external user selected connections. So any crossover distortion would already be taken care of per the following discussion which applies to bare opamps.

General purpose opamps are not intended to be used "open loop", that is at full gain without feedback. A feedback loop is added to set the actual gain to something much less than the open loop gain. This provides stable gain which is not significantly influenced by variations in the open loop gain, and reduces the effect of the crossover distortion by the "loop gain" factor. The loop gain is the product of the open loop gain times the feedback attenuation factor.

=46or example, assume 1v of dead zone (an exaggeration) on the output of an opamp with an open loop gain of 10,000. Set the closed loop gain at 100 with a feedback loop of 1/100. The loop gain is  $10,000 \times 1/100 = 100$ . That 1v of crossover distortion is reduced to  $1v/100 = 10\text{mv}$  at the output or  $10\text{mv}/100 = 0.1\text{mv}$  at the input.

This feedback technique also helps to reduce the effects of non-linearities and other deficiencies in the opamp open loop characteristics. At higher frequencies where the open loop gain is less, and the loop gain is also therefore less, these benefits become



less significant.=20

Dick Ballard  
Beaverton OR  
W7AND

On Fri, 10 Jan 2003 17:37:04 +0000, you wrote:

>I believe my problem is with clipping in the LM386. Looking at my scope=  
at the=20  
>wave form the tops get clipped as the signal amplitude increases. =20  
>  
>The big problem is with noise coming out of the opamp. It's a big wide =  
band on=20  
>the scope with an occassional sine wave from a signal appearing at the =  
top and=20  
>bottom. If the signal is large enough then the sine waves appear way =  
beyond=20  
>the top and bottom of the noise band.  
>  
>Now...how do I try and get rid of the noise coming from that opamp. =  
When I=20  
>hook the scope up to the BFO the band of noise isn't there. =20  
>

On Thu, 09 Jan 2003 19:12:03 +0000, you wrote:

>Harry Lythall at Harry's Homebrew mentioned curing crossover distortion =  
in an=20  
>op-amp by placing a resistor between the output of the op-amp and one =  
supply=20  
>rail. He suggested a 5 to 10K resistor but 560 to 1K may be used if the=  
opamp=20  
>is driving head phones.  
>  
>What does crossover distortion sound like and where does it usually =  
occurr? Is=20  
>is spread evenly over the signals variation is strength or does is =  
usually show=20  
>up on strong signals?  
>  
>>From Harry's description then to cure the crossover distortion I'm =  
connecting=20  
>the 5 to 10K resistor from the output pin of the op amp to the power =  
supply=20  
>rail?

-----  
Date: Fri, 10 Jan 2003 17:09:10 -0500  
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [144433] RE: Communication Concepts  
Message-ID: <721D3436A7C2B344A301FD4A413C71A9BFBEEF@kosh.ARRLHQ.ORG>  
content-class: urn:content-classes:message  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="Windows-1252"  
Content-Transfer-Encoding: quoted-printable

You can look up most companies that sell amateur products on the TISFIND =  
database  
at <http://www.arrl.org/tis/tisfind.html>. You can search the database by =  
company name or product type.

73,=20  
Ed Hare, W1RFI  
ARRL Lab  
225 Main St  
Newington, CT 06111  
Tel: 860-594-0318  
Internet: w1rfi@arrl.org  
Web: <http://www.arrl.org/tis>

> -----Original Message-----  
> From: Chris Trask [mailto:christrask@earthlink.net]  
> Sent: Friday, January 10, 2003 12:26 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: Communication Concepts  
>=20  
>=20  
>     Does anyone know if Communication Concepts Inc. still=20  
> exists? I've  
> looked for them on the web and all of the links I've tried=20  
> have turned into  
> dead ends.  
>=20  
> Chris  
>=20  
>     ,-----.  
>     /     What's all this     \  
>     / extinct stuff, anyhow?   /  
>     \     -----'  
                                  High Performance Mixers and  
                                  Amplifiers for RF Communications  
  
                                  Chris Trask / N7ZWY



internal battery installed. \$325.00 plus shipping.  
Trade possible

Do you Yahoo!?

Yahoo! Mail Plus - Powerful. Affordable. Sign up now.

<http://mailplus.yahoo.com>

Date: Fri, 10 Jan 2003 15:22:35 -0700  
From: "Chris Trask" <chrisrask@earthlink.net>  
To: <w1rfi@arrl.org>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [144436] Re: Communication Concepts  
Message-ID: <00a401c2b8f6\$c7e2f280\$57233941@cctrask>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Oooh! That's handy.

Chris

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      /      What's all this      \
      / extinct stuff, anyhow?  /
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# High Performance Mixers and Amplifiers for RF Communications

Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: [christrask@earthlink.net](mailto:christrask@earthlink.net)  
<http://www.home.earthlink.net/~christrask>

Graphics by Loek Frederiks

----- Original Message -----  
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Friday, January 10, 2003 3:09 PM  
Subject: RE: Communication Concepts

> You can look up most companies that sell amateur products on the TISFIND database

> at <http://www.arrl.org/tis/tisfind.html>. You can search the database by company name or product type.

>

> 73,

> Ed Hare, W1RFI

> ARRL Lab

> 225 Main St

> Newington, CT 06111

> Tel: 860-594-0318

> Internet: [w1rfi@arrl.org](mailto:w1rfi@arrl.org)

> Web: <http://www.arrl.org/tis>

>

>

>

> > -----Original Message-----

> > From: Chris Trask [<mailto:chistrask@earthlink.net>]

> > Sent: Friday, January 10, 2003 12:26 PM

> > To: Low Power Amateur Radio Discussion

> > Subject: Communication Concepts

> >

> >

> > Does anyone know if Communication Concepts Inc. still

> > exists? I've

> > looked for them on the web and all of the links I've tried

> > have turned into

> > dead ends.

> >

> > Chris

> >

> >

> > /-----What's all this \

> > / extinct stuff, anyhow? /

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High Performance Mixers and  
Amplifiers for RF Communications

Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
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Email: [chistrask@earthlink.net](mailto:chistrask@earthlink.net)

> > | | | | \ ' . http://www.home.earthlink.net/~chistrask  
> > c\_\_; c\_\_; ' -.. ' > . \_\_  
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> > Graphics by Loek Frederiks  
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Date: Fri, 10 Jan 2003 17:20:27 -0500  
From: "Joe W2KJ" <w2kj@bellsouth.net>  
To: "qrp-1" <qrp-1@lehigh.edu>  
Subject: [144437] G4ZPY dual lever paddles (iambic)  
Message-ID: <000501c2b8f6\$7ac399a0\$220110ac@gateway.2wire.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Howdy Gang:

Anyone out there using the G4ZPY twin-lever (iambic) paddles  
that can provide feedback about their performance??

Pros and cons are requested such as adjustment set-ability,  
paddle base moving around desk, smoothness of action, etc.

Many thanks for any info provided.

73, Joe W2KJ  
North Carolina

-----  
Date: Fri, 10 Jan 2003 21:43:21 +0000  
From: Larry Cahoon <lejek@erols.com>  
To: w5xe@juno.com,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [144438] Re: Milliwatt WAS .. Got ALL cards !!!!!  
Message-ID: <5.1.0.14.0.20030110214013.029abf38@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Ray,

If George doesn't take you up on that one. I still haven't worked El Paso County QRPp. Best so far there is five watts. It is one of the 30 TX (out of 250+) that I don't have QRPp yet.

73 de Larry.....WD3P in MD  
<http://www.wd3p.net/>

At 12:51 PM 1/10/2003 -0700, William R Colbert wrote:

>Congratulations George on a job well done, quite a  
>remarkable task and I envy you. Maybe next will  
>be the all county QRPp?

>

>73

>Ray

>So much to absorb, so little sponge!

>Ray Colbert, W5XE, 00TC#3618, SOWP#1064M

>NARTE-NCT2R QRP-ARCI 5784

>El Paso, (FAR WEST) TEXAS

-----  
Date: Fri, 10 Jan 2003 21:46:11 +0000  
From: Larry Cahoon <lejek@erols.com>  
To: w2wurjj@verizon.net,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [144439] Re: OT NIMH Batteries  
Message-ID: <5.1.0.14.0.20030110214404.029a6ce8@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Look at the capacity for the ones you are comparing. In general the NiMH will last a good bit longer. However they self discharge quicker than the Ni-Cads. So you have to be more diligent and make sure they are charged.

73 de Larry.....WD3P in MD  
<http://www.wd3p.net/>

At 03:03 PM 1/10/2003 -0800, W2WU wrote:

>How much better are NIMH than stock Ni-Cad for the FT50 or other HT?

-----  
Date: Fri, 10 Jan 2003 14:52:22 -0800

From: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [144440] OT: CAT5e cable  
Message-ID: <4.2.0.58.20030110144757.00b3e100@pioneernet.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

> My wife's computer is 120 feet from this one and I needed to  
>connect both with "network (ethernet)" cards that are wired together  
>with a special cable. The data flows between the computers at 100  
>Mbytes/second and uses this special 4 pair CAT5e wire.  
>  
> - Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Wires? You're a TCP/IP radio guy - you should hook up a couple  
WiFi cards and go wireless.

73,  
Bill - WA7NWP

PS. It's 100 Mbits per second, not Mbytes...

-----  
Date: Fri, 10 Jan 2003 18:00:12 -0500  
From: "Tom Palmer" <n1tp@swfla.rr.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [144441] Re: IL Falls - All Counties QRP  
Message-ID: <000301c2b8fc\$08d76b40\$6b2a0843@swfla.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Worked All Counties QRP!

Wow! That's more effort then I'll ever expend.

Tom, N1TP  
Naples, Florida

-----  
Date: Fri, 10 Jan 2003 17:08:54 -0600



From: Lew Paceley <lew@paceley.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Cc: gosier@twcnny.rr.com  
Subject: [144442] Re: Antenna Height ???????  
Message-ID: <000601c2b8fd\$3f7a1fc0\$6501a8c0@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=Windows-1252  
Content-transfer-encoding: 7BIT

Hi George,  
Your experience closely mirrors mine despite the fact that my 1/2 G5RV was up 28' - 30' in the air. 15m performance was simply atrocious and 30m was not great though I could make more QSOs on 30m than 15m. 10m performance, though a little tough to match at times with my Kenwood AT180 tuner, was excellent.

My 1/2 G5RV was fed with about 60' RG8X to a coax wrapped choke balun. As someone else suggested, you could probably improve the performance by using twinlead or window line all the way to the tuner. In fact, I had purchased 75' of 300 ohm window line for just that purpose.

I have since moved and at my new QTH I'm using a direct fed 92' long inverted L (28' vertical with a Black Widow fishing pole attached to a trellis) and the performance appears far better than the 1/2 size G5RV I had in Dallas.

Good luck!

72/73,  
\*Lew\*  
N5ZE

-----  
Date: Fri, 10 Jan 2003 18:15:38 -0500  
From: "Tom Palmer" <n1tp@swfla.rr.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [144443] Re: Truffle Log w5tb 3/10/03  
Message-ID: <000301c2b8fe\$302f37c0\$6b2a0843@swfla.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Truffle Hounds by State:

6 Wisc.  
5 Fla. (probably not 'cuz of cold weather, although  
it's been cold in Florida.  
2 Texas & Ariz.  
1 Ala, Miss, Va., N.D., Ind., Mich., Pa., N.M., & N.Y.

For once, them "Pesky Texans" did not take 1st prize!

Tom, N1TP  
Naples, Florida

-----  
Date: Fri, 10 Jan 2003 18:36:05 -0500  
From: "Tom Dooley" <tdooley@attbi.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [144444] FDIM 2003 - Call for Presenters  
Message-ID: <00e701c2b901\$0ba713c0\$6400a8c0@tdooleyjr>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Call for FDIM 2003 Presenters!

Planning is underway for the Four Days in May (FDIM) Symposium in conjunction with the 2003 Dayton Hamvention. This will be our eighth year for this "not to be missed" event. FDIM 2003 will start on Thursday, May 15, 2003. On that day, QRPers will gather in Dayton to hear from some of the best minds in QRP. The symposium is an 8-hour event, which covers the gamut of QRP.

Please consider sharing your talent and experience by giving a presentation and documenting it for the FDIM 2003 Proceedings. Topics are wide open and may include design; construction projects and techniques; antennas and feedlines; operating techniques or experiences. Be creative and define your own topic! All that is required is that you present your topic at the Thursday Symposium and document it for publishing in the FDIM 2003 Proceedings.

Time slots are limited, so please submit your idea soon. If interested, please send a short description (one paragraph) of the proposed talk to me prior to January 31, 2003. If you know of someone who might be interested in submitting an idea, please forward this call to them.

72 es 73,

Tom Dooley  
K4TJD  
4942 Dock Court  
Norcross, GA 30092  
USA  
K4TJD@arrl.net

-----  
Date: Fri, 10 Jan 2003 17:35:20 -0600  
From: "Jay Henson" <aj4ay@worldnet.att.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [144445] FOX: Two Fer - NOT  
Message-ID: <001a01c2b900\$f10c2a00\$9071560c@jay>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

All,

It sounds like I am not alone in missing the foxii last evening.

Alan was very loud at first and Dave was in amongst some really nasty QRM but copiable.

At 0120, the big RF suction machine in Texas took it all. Both foxii and most of the hounds just disappeared. I did hear Tom N1TP calling. Todd N9NE broke my headphones and was the loudest station heard all evening.

Anyway, not the best hunt for me but it was still fun.

72!

Jay  
AJ4AY  
Mobile, AL  
QRPL 1372, ARCI 8131, FISTS 7917, FP -115, SOC 220

-----

Date: Fri, 10 Jan 2003 18:50:56 -0500  
From: "Jim Gantner" <jgantner@mindspring.com>  
To: <n5zgt@swcp.com>  
Cc: <qrp-1@lehigh.edu>  
Subject: [144446] Re: Non Linear Devices Mini-Scope?  
Message-ID: <008e01c2b903\$1ef2e330\$eb40f7a5@usa.ccu.clearchannel.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

<http://www.nonlinearsystems.com/index.html>

Had someone give me a "broken" MS-15 with dead batteries. NLS repaired and replaced the batteries for \$95.00 including shipping.  
Threw in a manual to boot.

Nice people to work with.

Jim  
K4GT

----- Original Message -----

From: "Brian Milesosky" <n5zgt@swcp.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Friday, January 10, 2003 12:31 PM  
Subject: Non Linear Devices Mini-Scope?

> Hi All,  
>  
> Does anyone have the URL for Non-Linear Devices, if they are still  
> in business? I have an older mini-oscilloscope of theirs (with probes),  
> and I am looking to get some more information about it -- I'm thinking of  
> selling it, and am seeing what kind of price is decent to ask. Any ideas?  
>  
> I'm not looking to get rich off the thing, but I'm also not  
> intending to practically give it away either. Sorry, I do not have the  
> model number handy...it's at home right now. I'll provide it to the list  
> if anyone is interested later on today.  
>  
> 72,  
> Brian, N5ZGT  
>  
>  
-----  
> Amateur Radio Station N5ZGT - N5ZGT PBBS, 145.01 MHz

> ARRL Life Member, NorCal #1700 QRP-L #580 AK/QRP #125  
>  
> Boy Scouts of America - Eagle Scout 12/6/96 - ASM, Troop 85  
> Vigil Honor Member, O.A. Lodge 66 Yah-Tah-Hey-Si-Kess  
>  
> Please visit my site at <http://www.unm.edu/~brianm>  
> -----  
>

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End of QRP-L Digest 2796

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